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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/17/2002

CAHILL, SUTTON & THOMAS P.L.C.

Attn: Marvin A. Glazer

155 Park One

2141 East Highland Avenue

Phoenix, AZ 85016

EXAMINER

NGUYEN, THINH T

ART UNIT

CLASS-SUBCLASS

2818

257-738000

DATE MAILED: 04/17/2002

	<i>,</i>			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,798	01/22/2001	Jamin Ling	5833-A-13	8425

TITLE OF INVENTION: ELECTROLESS NI/PD/AU METALLIZATION STRUCTURE FOR COPPER INTERCONNECT SUBSTRATE AND METHOD THEREFOR

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
23	nonprovisional	NO	\$1280	\$300	\$1580	07/17/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



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7590

04/17/2002

CAHILL, SUTTON & THOMAS P.L.C.

Attn: Marvin A. Glazer 155 Park One 2141 East Highland Avenue Phoenix, AZ 85016 Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

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indicated below.

(Depositor's name)

(Signature)

(Date)

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	EXA	AMINER	ART UNIT	CLASS-SUBCLAS	SS		
	NGUYE	N, THINH T	2818	257-738000			
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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Please check the appropriate assignee category or category	ories (will not be printed on the patent)	☐ individual	corporation or other private group entit	y 🚨 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	A check in the amount	of the fee(s) is en	closed.	
☐ Publication Fee	Payment by credit care	l. Form PTO-2038	3 is attached.	
☐ Advance Order - # of Copies	☐ The Commissioner is I Deposit Account Numbe	nereby authorized r	by charge the required fee(s), or credit any (enclose an extra copy of this form).	overpayment, to
The COMMISSIONER OF PATENTS AND TRADEM application identified above.	MARKS is requested to apply the Issue Fee	and Publication	Fee (if any) or to re-apply any previously p	aid issue fee to the
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if requiother than the applicant; a registered attorney or a interest as shown by the records of the United States Ferrer and the state of the United States of the United States of the Issue of the	gent; or the assignee or other party in a varient and Trademark Office. The will vary omments on the amount of time required formation Officer, United States Patent NOT SEND FEES OR COMPLETED THIS FORM TO: Box Issue Fee.			
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Attn: Marvin A. G	lazer		ART UNIT	PAPER NUMBER
2141 East Highland			2818	. <u>-</u>
Phoenix, AZ 85016)	DA	ΓΕ MAILED: 04/17/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

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4☐ Interview Summ 6☐ Examiner's Ame 8⊠ Examiner's Stat 9☐ Other David Nelms	nal Patent Application (PTO-152) mary (PTO-413), Paper No lendment/Comment ltement of Reasons for Allowance
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Application/Control Number: 09/766,798

Art Unit: 2818

DETAILED ACTION

Reason for allowance

1. Claims 1-5 and 7-24 are allowed. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed "Electroless Ni/Pd/Au metallization structure for copper interconnect substrate and method therefor "having ---" a patterned layer of nickel plated over each connection pad for mechanically and electrically bonding to the interconnect metal forming such connection pad, the patterned layer of nickel being in direct contact with the underlying connection pads; "--- in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Application/Control Number: 09/766,798

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Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 703-305-0421. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T Nguyen TTN

Art Unit 2818

Supervisory Patent Examiner Technology Center 2800